

Open Search returns an ATOM feed containing zero or more entries corresponding to dataset or granule resources

Spatial extent

If there is a spatial extent associated with a dataset/granule then your Open Search implementation is obliged to render that extent as a minimum bounding rectangle in a georss box element. You may also render the true spatial extent in georss format using the geo:geometry tag.

```
<georss:box>73.010283 -132.180724 83.513558 126.930172</georss:box>
<georss:polygon>73.010283 -132.180724 73.346251 -129.310846 83.513558
123.00686 82.753225 126.930172 73.010283 -132.180724</georss:polygon>
```

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Temporal extent

If there is a temporal extent associated with a dataset/granule then your Open Search implementation is obliged to render that extent as a dublin core date. This can be either a single date/time, a closed range or an open-ended range (TBD how we render this

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```
<dc:date
xmlns:dc="http://purl.org/dc/elements/1.1/">1995-02-15T05:55:26.000Z/1995-
02-15T06:00:58.000Z</dc:date>
```

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Results traversal

In the root feed element of your search results you are obliged to convey information and links to enable a use to traverse their results set.

```
<os:totalResults>40</os:totalResults>
<os:itemsPerPage>10</os:itemsPerPage>
<os:startPage>2</os:startPage>

<link href='https://foo.gov/opensearch/datasets.atom' rel='first'
type='application/atom+xml' />
<link href='https://foo.gov/opensearch/datasets.atom' rel='prev'
type='application/atom+xml' />
<link href='https://foo.gov/opensearch/datasets.atom?cursor=2' rel='self'
type='application/atom+xml' />
<link href='https://foo.gov/opensearch/datasets.atom?cursor=3' rel='next'
type='application/atom+xml' />
<link href='https://foo.gov/opensearch/datasets.atom?cursor=4' rel='last'
type='application/atom+xml' />
```

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More searching (IDN only)

The IDN should provide a link element that allows a client to drill down on a dataset's granule inventory via CWIC. To facilitate this we take advantage of the ESIIP Best Practice of 'recursive' searching concept. Each dataset entry would have a link to an Open Search Description Document (OSDD) that scopes a search to that single dataset. The link would be a parameterized url that would generate a dynamic OSDD for that particular dataset and the client ID of the user in question. A client could then formulate a granule query user interface for that dataset if the user requires it.

The link is identified as such by it's rel type (search) and it's mime type (application/opensearchdescription+xml)

```
<?xml version="1.0" encoding="UTF-8"?>
<feed ... >
  ...
  <entry ... >
    <id>http://idn.gov/opensearch/datasets/1234</id>
    <link rel='search'
type='application/opensearchdescription+xml'>bar.gov/opensearch/granules/d
escriptorDocument?datasetId=1234&clientId=doug</link>
    ...
  </entry>
  ...
</feed>
```

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 [CWIC-23](#) - JIRA project doesn't exist or you don't have permission to view it.